

MINUTES
ENOCH CITY WATER BOARD
June 11, 2020 at 4:30pm
City Council Chambers
City Offices, 900 E. Midvalley Road

MEMBERS PRESENT: On Zoom: Larry Gardner, Doug Grimshaw and Alan Miller. Steve Woolsey and Spencer Jones were absent.

STAFF PRESENT: Rob Dotson, Julie Watson and Earl Gibson. Council Member Harris was absent.

PUBLIC PRESENT: none

1. **CALL TO ORDER OF REGULAR MEETING-**By Chairman Gardner at 4:30 pm.
 - a. **Pledge of Allegiance** –Led by Doug Grimshaw
 - b. **Invocation** –Audience invited to participate. Given by Chairman Gardner
 - c. **Approval of agenda for June 11, 2020** –**Doug Grimshaw made a motion to approve the agenda. Motion was seconded by Alan Miller and all voted in favor.**
 - d. **Approval of minutes for May 14, 2020-Doug Grimshaw made a motion to approve the minutes. Motion was seconded by Alan Miller and all voted in favor.**
 - e. **Conflict of Interest Declaration**-none stated

2. **DISCUSS WILLOWSTICK PROPOSAL AND OPTIONS**

City Manager Dotson said at the last meeting we had a presentation from Willowstick who used 3D technology to find water by surveying using four different methods. They use electric current method in existing wells; they also use passive seismic data, gamma techniques and they can use lightening technique developed by Roice Nelson to gather data to make the 3-D model. They discussed how that would work for us and where we would do that. The scope of work and cost estimate was shown on the screen. This is meant to find high yield areas for water production. They start where fractures are already mapped. They proposed two different areas of fractures we have on a map we already have. Enoch city limits are in blue north of Enoch. He told about map colors and who owns what land. Their proposal is to survey in these areas in cross sections across this fault lines. It is better to know what is below Enoch itself and not too far out. This is due to the need to have it be cost effective to get the water here. The map was discussed. The fault lines are from USGS and we need water close by. There was more discussion of past drillings where we were close but not right on.

Doug wanted to talk about the other areas and referred to the map. There was more discussion of wells on the bench that are good producers because of fractures there. Doug said drop the Parowan area and concentrate on what is close to us. The only thing they did not put in was the lightening analysis in the cost for this job. There was discussion of work they have done all over the world and local areas. The costs is \$49,500 done in ten days of field work They will take data and create the 3-D viewpoint of what they found in each of the cross points. The City Council already approved the budget money to do this from savings in the water fund. Alan asked about success/failure rate and City Manager Dotson did not know that. They do the data work but not the actual drilling part of it. Our attorney was asked about if the data is proprietary or if paid by residents money is it public. It can be protected data and that was a concern. The north end of Enoch is where we are asking the Water Board for a recommendation. Alan said

leave Parowan and see if you get cost sharing on that or take it out and add in the best water quality. We excluded the south end of Enoch because those are high nitrate areas. City Manager Dotson said if they did this they will track that fault line. Referred to past studies. The four angles shown are what they priced out in the bid. He would have liked to see the lightning data and it is \$10,000 more to add that. We have to consider the cost to get the water to be usable and cost effective. Other hydro studies we did before cost 12K and the data was pretty basic. We need better data like what is offered here. This is taking known information and adding to it and modeled it so we can really see what we have. City Manager Dotson asked what the Water Board thinks? This will not go to the City Council again. Alan asked if they could give success/failure rate. City Manager Dotson said their credentials are superior. They originally started out to find leaks in dams. They have a good proven success rate. It was noted the start date would be second week of July to start with ten days for the field work. We would need permission on some private property.

Everyone liked the proposal to do the work nearer to Enoch to make it doable to get the water here. We want to tie into existing infrastructure and need to be close to do that. There was more discussion of areas on map and what they would look at. There are lots of geological formations in this area. Doug wanted to include Rush Lake area in the study. We have done passive seismic data from another study and we know water is there like a lava tube referring to the Jordan well. They want to go right to the fractures and get the most bang for the buck and have it be proprietary information. Alan agreed with moving it to the east a bit. You get a 3-D map you can manipulate from the different sources. They give recommendations based on information. The Conservancy District is using them too. Option two is what we would work with and modify it a bit to the east and to the north.

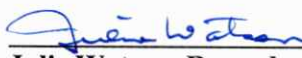
3. PUBLIC COMMENTS-none

4. BOARD/STAFF REPORTS

City Manager Dotson told about Earl retiring on June 30th. The person being hired will be approved at the City Council meeting on the 17th. Our crew is well trained and Earl did a good job of building a culture where employees can learn, obtain certifications and move up. He is responsible for the City's infrastructure which he shaped and cared for all of these years. He will be missed.

Alan Miller asked about the status of the wells and if they are all working. Earl said all wells are up and running but not running 24 hours a day which is good. They kick on and off to keep the tanks full. We were pumping 2800 GPM with all seven wells running. They are working on more getting more wells online before the heat of summer. Brief discussion was held about negotiations in progress. The West Desert water project received money for an EIS and we agreed to be a participant with that. A financial analysis was done and what each municipality would have to pay and where funding may come from. We are talking that this project is about ten years out before it will be needed.

5. ADJOURN-Motion to adjourn by Doug Grimshaw. Motion was seconded by Alan Miller and all voted in favor. The meeting end at 5:45 pm.

 7-9-20
Julie Watson, Recorder Date